Nonlocality, Counterfactuals and Quantum Theory

Transparencies

1. 3 views on observables not an exposition
2. What does measurement do?
2a. How is this change brought about
2b Locality in the EPR Argument (Locality 1 & Locality 2)
2c The EPR Argument (1935)
2d Locality 3
3. The Bell Inequality
4. The Bell Inequality
5. $C_{QM}(a,b)$ and $C_{Classical}(a,b)$
6 The Violation of the Bell Inequality by QM
6a The Four Correlation Coefficients
7 The (Henry) Stapp – (Phillips) Eberhard Argument – Locality 4 – PLCD.
8. Counterfactual formulation – PLCD.
9. Reflections on PLCD
10 Truth Conditions for $\phi \Box\!\!\rightarrow \psi$
11 Locality 5.
12 Conflict with 5/6 and Relativity of Violation
Locality 1/3

13. The Kochen-Specker paradox and Decoherence

14. Interaction of Physics and Philosophy.